
HAPPY HCS-1201 Voyager

Firmware Update to 1.11

(for color monitor version only)

Updated Dec. 9, 2008

Instructions For Installing This Update

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For firmware update to V 1.11

Follow the directions on these pages to upgrade the firmware of your HAPPY Voyager to 1.06, which adds the ability to include custom hoop sizes to the Frame screen of your machine.

Requirements: This update requires a compact flash card and PCMCIA adapter.

Save the following files (included in this ZIP file) **onto a compact flash card**. (note:do NOT save the files into a folder or directory on that card, only its main (root) directory :

- LCD Controller update files: **LCDHA103.bin**
LCDHA103.upi
- Language update files: **H_eng140.bin**
H_eng140.upi
H_spa130.bin (if you want Spanish)
H_spa130.upi (if you want Spanish)
- CPU board control updates: **Chcsa111.bin**
Chcsa111.upi
- On-board lettering updates: **Ltr101.bin**
Ltr101.upi


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Once you've saved these files onto the Flash card, you can begin the update process.

Note for Machines with USB Jump Drive Ports


On HCS machines with a USB jump drive port, this update may also be performed with the update files saved on a USB jump drive instead of a CompactFlash card. The steps are identical.

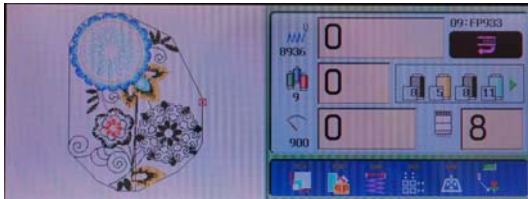
Entering Maintenance Mode


To begin installing updates, Voyager must be started in Maintenance mode first. Follow the procedures on this page to accomplish this.

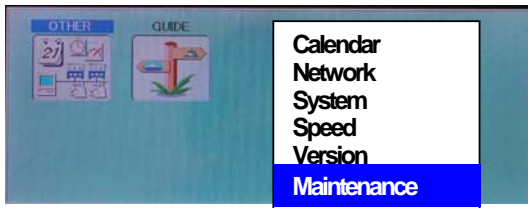
1. **Power off** the machine.
2. **Press and hold** the  key while powering the machine on.
3. The **screen below** appears.



4. **Press the**  key. The machine will boot as normal. Keep clear as the carriage arm moves during its self-test. The normal main “drive” screen should appear as below:

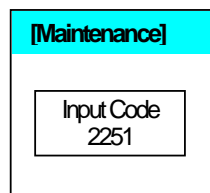



8. **Press MENU** and use the blue arrow keys to navigate to the **OTHER** submenu, and press .



7. **Choose “Maintenance”** from the list that appears, and press .

6. **Enter the code 2251** in the dialog box that appears, using the 4 blue arrow keys.

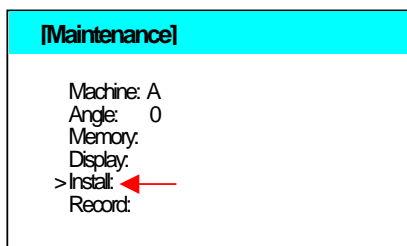


5. **Press**  to accept the code and enter maintenance mode.

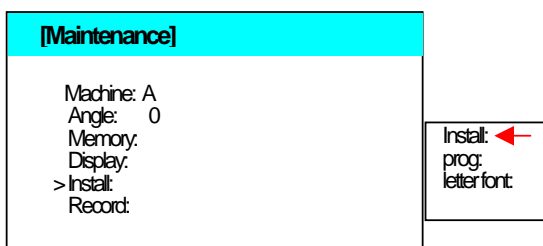
2. Insert compact flash card into machine as prepared on page 2 of this document.



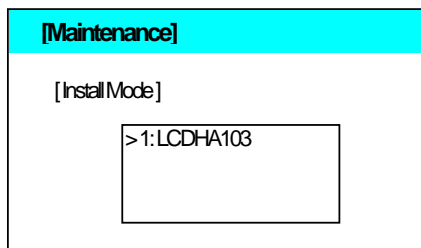
3. In maintenance mode as described on page 3 of this document, the following screen should now be visible. Arrow down to "Install" and press **SET**



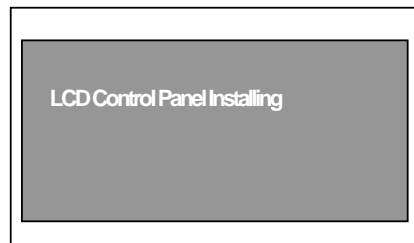
6. A sub-menu will appear to the right as shown below. Choose "Install" from this sub-menu and press **SET**



4. The install program should now automatically find the LCDHA update file on the compact flash card :



1. Press **SET** to begin the update process for the ATA board controller program. You should see the message as shown below:



WARNING: Do NOT remove the Flash card during this process! Interruption of the install process may render the machine inoperable and unable to update to ANY version.

5. **Re-Start the machine** after the update has completed. If an error message occurs during any point in this process, begin again from step 1.

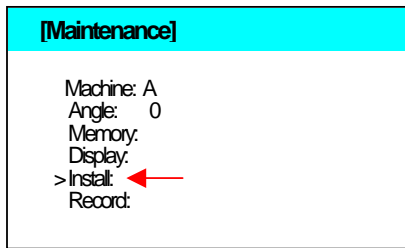
In this step, you can change the machine's language by loading a different language file. For English, choose H_eng140.bin. There are various other languages available. The file for Spanish is H_SPA130.bin for example.

1. **Insert compact flash card into machine** as prepared on page 2 of this document.

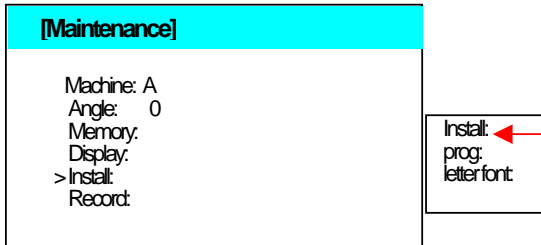


2. **Re-start machine in maintenance mode** as described on page 3 of this document, displaying the screen below.

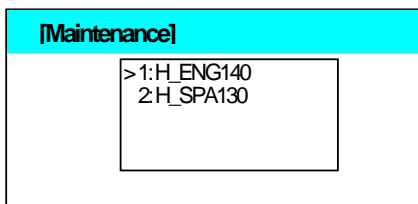
Once again, choose "Install" and press **SET**



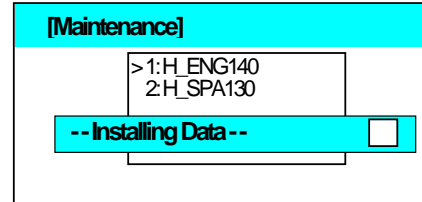
3. Again, the sub-menu to the right will appear. Again, choose "Install" and press **SET**



4. The install program should now auto-detect any language files that are saved on the card. They should appear as below. Select a language and press **SET**

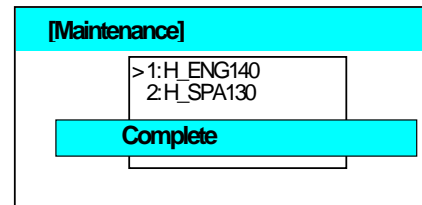


5. The display should now appear as shown below. This step may take a few minutes.

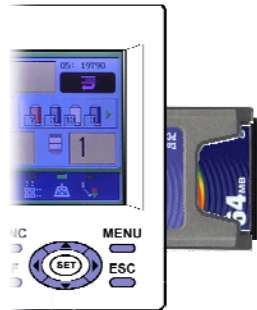


WARNING: Do NOT remove the Flash card during this process! Interruption of the install process may render the machine inoperable and unable to update to ANY version.

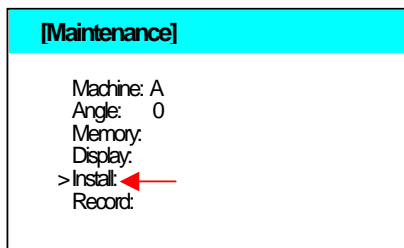
6. Watch for the message "COMPLETE" to appear (as shown below), then for the machine to re-boot automatically to the main (drive) screen.



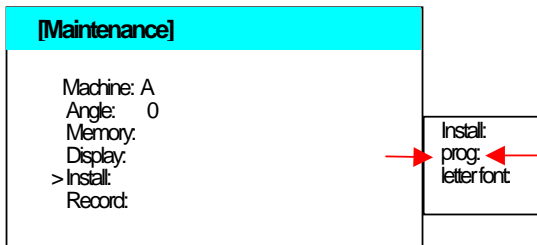
1. Insert compact flash card into machine as prepared on page 2 of this document.



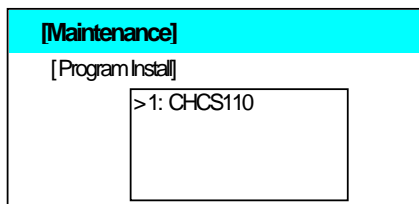
2. Re-start machine in maintenance mode and return to the maintenance screen. Once again, choose "Install" and press **SET**



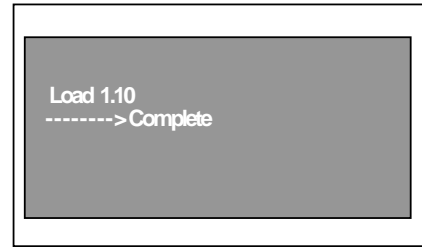
3. Again, the sub-menu appears to the right as shown below. This time, select "prog", then press **SET**



4. The install program should now detect and display whatever program update is on the card, starting with the name "CHCS". For 1.10, this should be "CHCS110".



5. Press **SET** to begin the update. The screen will appear as shown below once the update is complete.



WARNING: Do NOT remove the Flash card during this process! Interruption of the install process may render the machine inoperable and unable to update to ANY version.

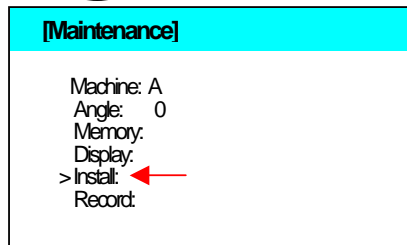
6. The machine will re-start after the update has completed. If an error message occurs during any point in this process, begin again from step 1.

This step is optional. With the release of Firmware 1.11, there are no updates to the onboard lettering, which remains at version 1.01. The last change to the lettering program was released with HCS firmware version 1.05.

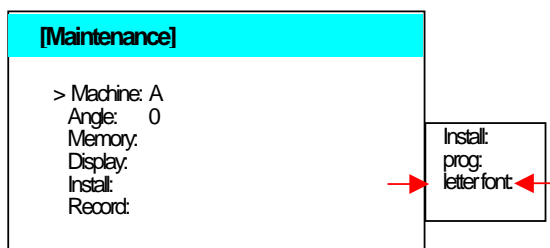
1. Insert compact flash card into machine as prepared on page 2 of this document.



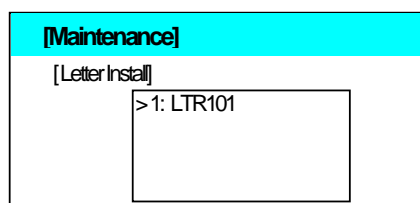
2. Re-start machine in maintenance mode and return to the Maintenance screen as shown below. Select "install" and press **SET**



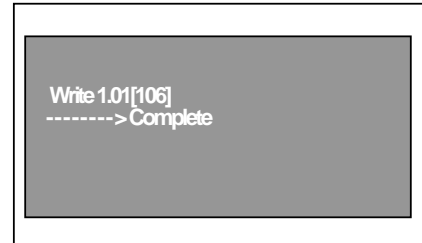
3. Choose "letter font" in the sub-menu that appears (as shown below) and press **SET**



4. The install program should now detect and any lettering updates that you have saved on the card, as shown below:



5. Press **SET** to begin the update. The screen will appear as shown below once the update is complete.



WARNING: Do NOT remove the Flash card during this process! Interruption of the install process may render the machine inoperable and unable to update to ANY version.

6. The machine will re-start after the update has completed. If an error message occurs during any point in this process, begin again from step 1.

- **Re-initialize the machine.** At this point, the update is complete. The HCS updater program can be closed. However, before sewing, the machine must be re-initialized or its sewing speed will be limited to 500 s.p.m. To do so, follow these steps.
 - a. **Re-set the control panel program.** To do so,
 - i. From the Drive screen, press MENU and use the arrow keys to navigate to Other. Press SET to select Other.
 - ii. Choose System and press SET. Use the arrow keys to choose OK and press SET.
 - iii. The machine's firmware will re-set. This will be a fast process, usually lasting less than a second. There will be no confirmation screen that the process is complete.
 - b. **Re-set the inverter (sewing speeds).** To do so, do the following:
 - i. From the Drive screen, press MENU and use the arrow keys to navigate to Other. Press SET to select Other.
 - ii. Choose System and press SET. Use the arrow keys to choose OK and press SET.
 - iii. The message "CAUTION! MAIN SHAFT TURNS!" will appear. After a few seconds, the main shaft will begin turning slowly, moving the take-up lever (but not the needle) on the active color. For approximately 1 minute, the machine will slowly accelerate to full speed and then stop. At this point, the process is finished.

For the HCS-1201, color LCD display, firmware version 1.11 implements significant changes from 1.07 (note that an experimental version, 1.10, very similar to 1.11 was released, but these notes reference changes from 1.07 to 1.11):

1. **Additional of “Basic Operating Modes”:** In addition to the traditional operating mode for the machine, HAPPY has added 2 levels of “basic” operating modes, intended for less-experienced operators. In these modes, fewer options are displayed, and screen prompts and text have been added to help guide the operator. You can switch between these modes by doing the following:
 - a. From the main/drive screen, press MENU to call up the main menu items.
 - b. Navigate to the “OPTIONS” screen and press SET.
 - c. Scroll down to the “Operations Mode” and choose between “Advanced”, “Basic 2”, and “Basic 1”, and press SET.
 - d. Press ESC until the machine is returned to the main/drive screen.
2. **Changes for key menu screens:** The appearance and function of the following menu items have been changed/improved:
 - a. **SETTING** screen: help guides are now available – press MENU to access the icon on the right with the question mark.
 - b. **NEEDLE** screen: The layout of this screen has changed, although the function remains very similar. One significant change for appliqué sewers: setting a STOP command at a given color change number is now accomplished with the FUNC key and not the
 - c. **FRAME** screen: functional changes make setup easier. The left and right arrow keys now allow you to select between round/square/user, while the up/down arrows select a frame size. Also, interactive help is now available, in Basic modes
 - d. **LETTER** screen: same changes that were implemented in 1.05 – meaningful text sizes referenced on the screen, setup is simpler and more intuitive.
3. **Auto Frame Positioning:** This function, previously always-on, can now be disabled at the operator’s discretion. When disabled, operator may shift design position in mid-sew with the arrow keys.
4. **Change to the FUNC (drive) sub-menu:** The menu items have changed to, in this order:
 - a. **Frame position** –selecting this displays a row 4 icons for 4 additional options, in order from right to left: (1) center the hoop; (2) frame-out; (3) center design in hoop; and (4) move hoop to last sewn position.
 - b. **Origin:** as normal – move sewing position to design origin.
 - c. **Log-in:** When connected to a network, be sure to perform this function.
 - d. **Turn-off.** Remember to power off the machine using this function.
5. **Cap Frame Type Selection at Startup:** With the cap driver installed, the machine now prompts the operator to select the wide or standard cap sewing field on machine startup.
6. **True design stitch count now displayed:** The true design stitch count is now displayed. The 1,024 stitch offset is no longer included in the stitch count for the trace.
7. **Adaptation for optional laser position marker:** If the optional laser positioning marker is purchased with your HAPPY machine, this functionality is now built in to 1.11.